# FCC Information and Copyright

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here without obligation to notify any party beforehand.



The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

## Table of Contents

# Chapter 1: Introduction

## Getting Started

To assure the safe application of the mini PC, please carefully read the following:

- Before disassembling or cleaning this product, make sure the power connector is unplugged.
- Keep the mini PC away from excessive moisture, direct sunlight, and extreme heat and cold. Keep liquids away from the mini PC and keyboard.
- Never wipe the interior of the system with water or dip the system in water.
- Before connecting to any peripheral, please turn off the power of the system.

## Package Checklist

Please carefully unpack the mini PC and check the following items from the package:

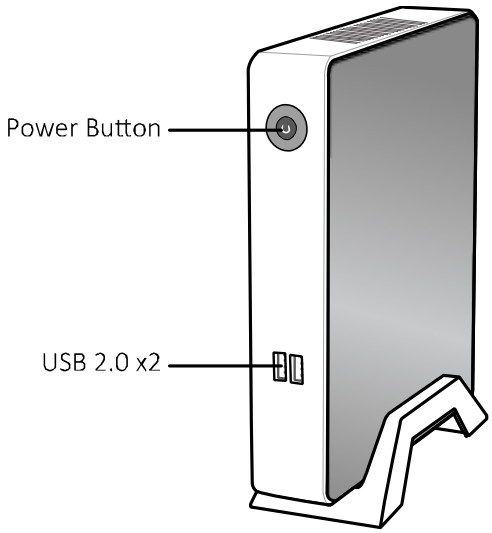
- mini PC x1
- Stand x1
- SATA Cable x1
- Screws Pack x1
- Power Cord x1
- VESA Mounting Kit x1 (optional)
- Power Adaptor x1
- Quick Start Guide x1
- DVD Driver x1
- Rubber Stands x4
- Antenna x1
- Wireless Module x1 (optional)

# Specification

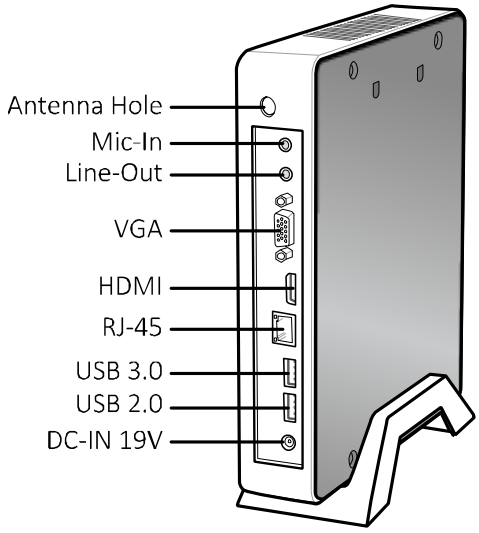
| | | |
|---|---|---|
| **Processor** | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| **Graphics** | Integrated Intel® HD Graphics series graphic engine | |
| **Memory** | Supports Dual Channel DDR3L 1333 (1.35V/1.5V)<br>2x DDR3L SO-DIMM Memory Slot, Max. Supports up to 16 GB Memory<br>Each DIMM supports non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L module<br>* Please refer to www.biostar.com.tw for Memory support list. | |
| **Networking** | LAN (RTL8111G) | 1x Gigabit Ethernet, RJ-45 Port |
| | WLAN (Wi-Fi module sold separately) | 1x Mini PCIe Connector |
| **Audio** | Realtek Codec ALC662, Support 2x Port with Line out / MIC in | |
| **Storage** | 1x SATA II connector, data transfer rates up to 3.0Gb/s | |
| **Rear I/O** | DC jack (19V DC-in) | 1x |
| | USB 3.0 port | 1x |
| | USB 2.0 port | 1x |
| | RJ-45 Gigabit Lan port | 1x |
| | HDMI connector | 1x |
| | VGA connector | 1x |
| | Line-Out | 1x |
| | Mic-In | 1x |
| **Front I/O** | USB 2.0 port | 2x |
| | Power on button | 1x |
| **Environment** | Operation Temperature | 0°C ~ 40°C (32°F ~ 100°F) |
| | Storage Temperature | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Relative Humidity | 20% ~ 80% non-condensing |
| **Power Supply** | 19V/45W | |
| **OS Support** | Windows 7 / 8 / 8.1<br>Biostar reserves the right to add or remove support for any OS with or without notice. | |
| **Mounting** | Foot stand | |
| | VESA 75/100 Mount Bracket (Optional) | |
| **Dimension** | 210mm (L) x 40mm (W) x 185mm (H) | |
| **Weight** | 0.8 kg | |
| **Regulatory Compliance** | CE/FCC | |

# Getting to Know Your System

**Front Panel**



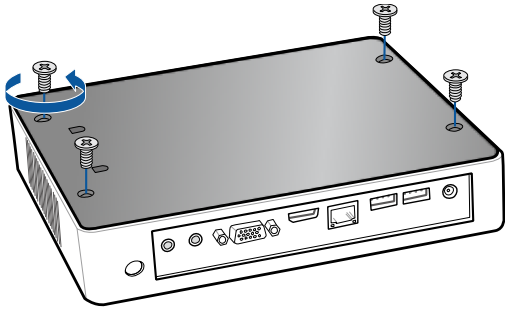

**Rear Panel**



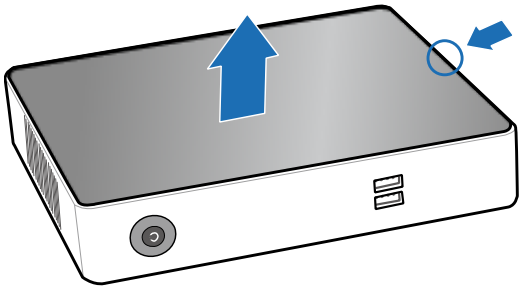
# Chapter 2: System hardware installation

## Disassembling the Cover

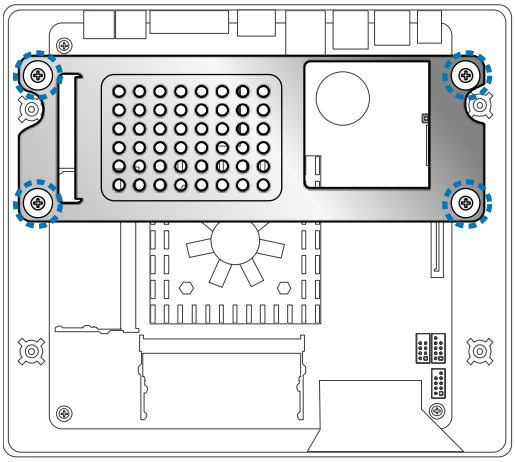
1. Loosen four screws on the bottom cover, then turn the system over.



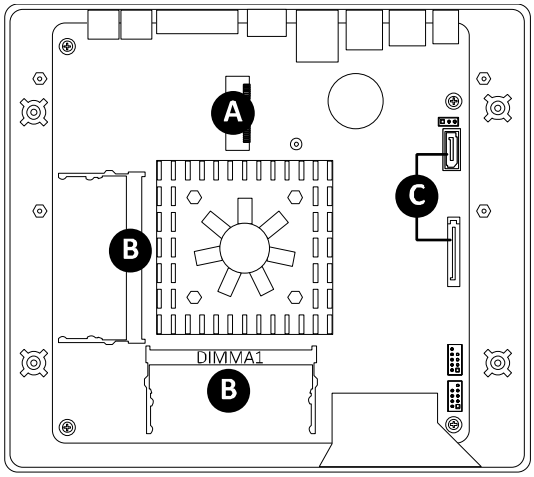
2. Place the tip of your fingernail into the tiny gap between the cover and the chassis, then pull up the cover.



3. Loosen four screws of HDD Bracket.

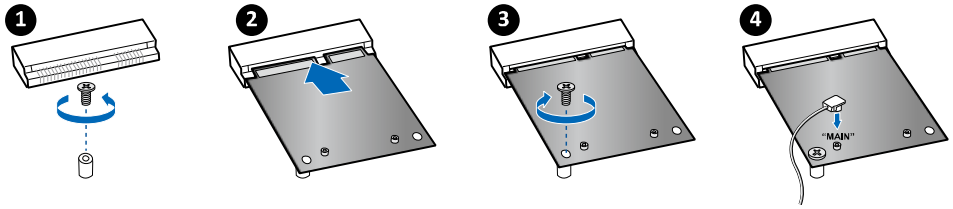


4. After removing the HDD bracket, you will see the system board.




## A. Installing WiFi Module

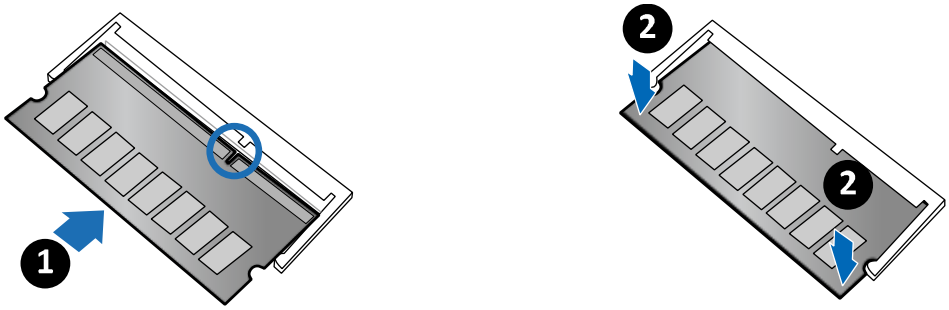
Insert WiFi module into mini PCIe slot and fasten screw. Connect antenna line to “MAIN” on the WiFi module.




**Note:** Wi-Fi module sold separately

## B. Installing Memory Module (1.35V/1.5V)

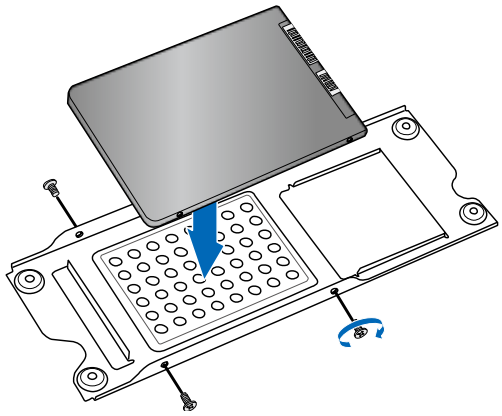
Insert memory module into SODIMM socket at backside of motherboard.



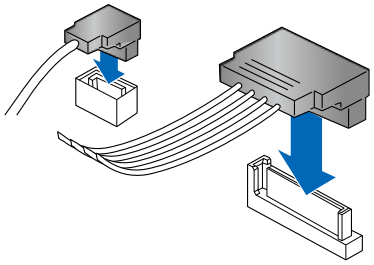

**Note:** The DIMM must be installed to DIMMA1 slot first.

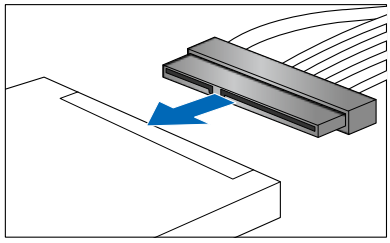
## C. Installing a 2.5 inch HDD

1. Fasten HDD bracket with HDD.

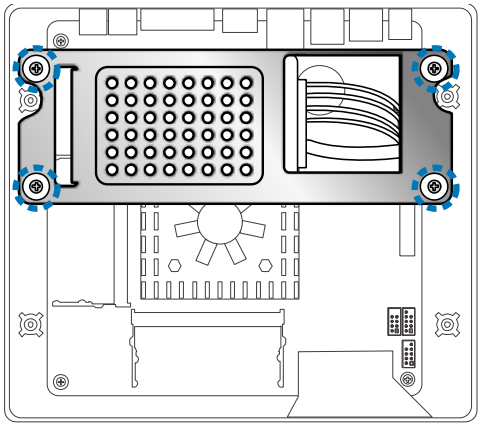


2. Connect the SATA cable to the HDD and system board.



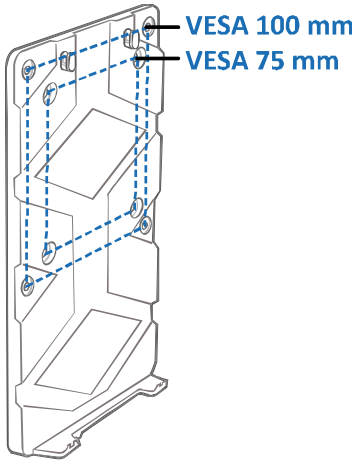


3. Screw the HDD bracket back to the system.

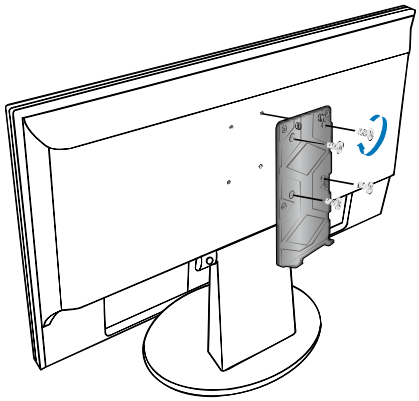


# VESA Bracket (Optional)

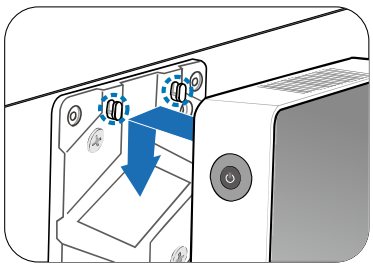
1. The mounting kit has either the VESA 75 mm or 100 mm mounting pattern.




2. Secure the VESA mounting bracket to your monitor with four screws.

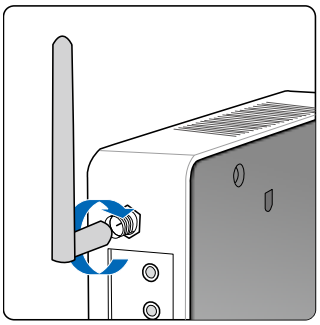


3. Place your PC on VESA bracket and make sure the PC is hooked by the VESA mounting bracket.

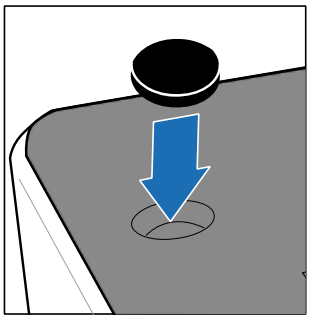


## Antenna

Fasten antenna to the connector.



**Note:** After the system assembly, please place the rubber stand to each screw hole.



# Chapter 3: BIOS Setup

**Introduction**

The purpose of this manual is to describe the settings in the AMI UEFI BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to NVRAM.

UEFI BIOS determines what a computer can do without accessing programs from a disk. This system controls most of the input and output devices such as keyboard, mouse, serial ports and disk drives. BIOS activates at the first stage of the booting process, loading and executing the operating system. Some additional features, such as virus and password protection or chipset fine-tuning options are also included in UEFI BIOS.

The rest of this manual will to guide you through the options and settings in UEFI BIOS Setup.

**Plug and Play Support**

This AMI UEFI BIOS supports the Plug and Play Version 1.0A specification.

**EPA Green PC Support**

This AMI UEFI BIOS supports Version 1.03 of the EPA Green PC specification.

**ACPI Support**

AMI ACPI UEFI BIOS support Version 1.0/2.0 of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

**PCI Bus Support**

This AMI UEFI BIOS also supports Version 2.3 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

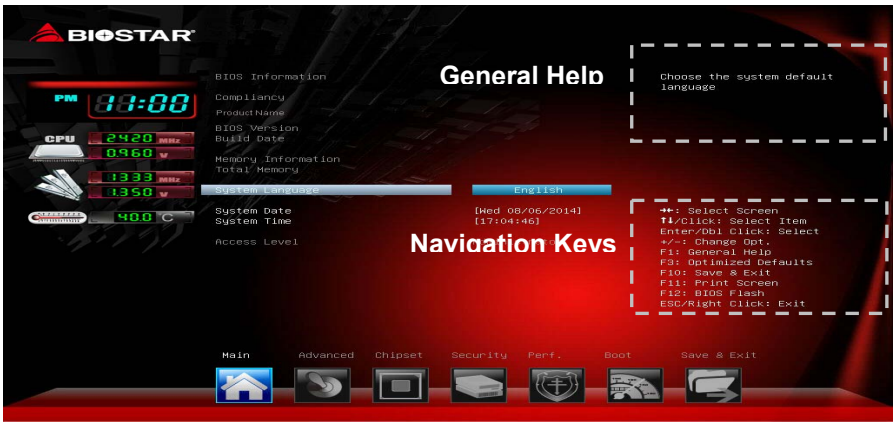
**DRAM Support**

DDR3L SO-DRAM (Double Data Rate III Synchronous DRAM) is supported.

## Using Setup

When starting up the computer, press <Del> during the Power-On Self-Test (POST) to enter the UEFI BIOS setup utility.

In the UEFI BIOS setup utility, you will see General Help description at the top right corner, and this is providing a brief description of the selected item. Navigation Keys for that particular menu are at the bottom right corner, and you can use these keys to select item and change the settings.

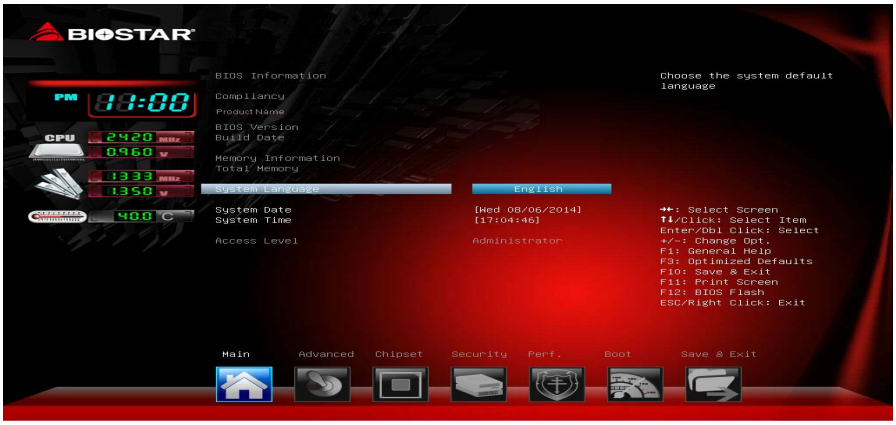



**<Notice>**

- The default UEFI BIOS settings apply for most conditions to ensure optimum performance of the motherboard. If the system becomes unstable after changing any settings, please load the default settings to ensure system's compatibility and stability. Use Load Setup Default under the Exit Menu.
- For better system performance, the UEFI BIOS firmware is being continuously updated. The UEFI BIOS information described in this manual is for your reference only. The actual UEFI BIOS information and settings on board may be slightly different from this manual.
- The content of this manual is subject to be changed without notice. We will not be responsible for any mistakes found in this user's manual and any system damage that may be caused by wrong-settings.

# Main Menu

Once you enter AMI UEFI BIOS Setup Utility, the Main Menu will appear on the screen providing an overview of the basic system information.




**BIOS Information**

It shows system information including UEFI BIOS version, Product Name, Build Date and etc.

**Total Memory**

Shows system memory size, VGA shard memory will be excluded.

**System Language**

Choose the system default language.

**System Date**

Set the system date. Note that the ‘Day’ automatically changes when you set the date.

**System Time**

Set the system internal clock.

# Advanced Menu

The Advanced Menu allows you to configure the settings of CPU, Super I/O, Power Management, and other system devices.

**<Notice>** Beware of that setting inappropriate values in items of this menu may cause system to malfunction.


## ACPI Settings


### Enable ACPI Auto Configuration

This item enables or disables BIOS ACPI Auto Configuration.

Options: Disabled (Default) / Enabled

**Enable Hibernation**

This item enables or disables system ability to hibernate (OS/S4 Sleep State). This option may be not effective with some OSes.

Options: Enabled (Default) / Disabled

**ACPI Sleep State**

This item selects the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

Options: S3 only (Suspend to RAM) (Default) / Suspend Disabled

**Lock Legacy Resources**

The item enables or disables Lock of Legacy Resources.

Options: Disabled (Default) / Enabled

**Restore AC Power Loss**

Specify what state to go to when power is re-applied after a power failure.

Options: Power Off (Default) / Power On / Last State

**EuP Control**

When EuP is enabled, the system will meet EuP requirement.

Options: Disabled (Default) / Enabled

**PME Wake up from S5**

The item enables the system to wake from S5 using PME event.

Options: Enabled (Default) / Disabled

**Wake system with Fixed Time**

This item enables or disables the system to wake on by alarm event. When this item is enabled, the system will wake on the hr::min::sec specified.

Options: Disabled (Default) / Enabled

**Wake up date**

You can choose which date the system will boot up.

**Wake up hour / Wake up minute / Wake up second**

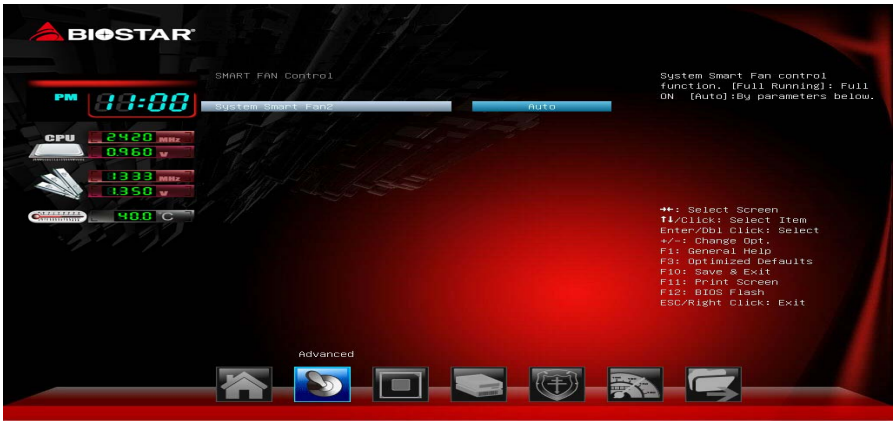
You can choose the system boot up time, input hour, minute and second to specify.

**USB Device Wakeup from S3/S4**

This item allows you to enable or disabled the USB resume from S3/S4 function.

Options: Disabled (Default) / Enabled

## SMART FAN Control

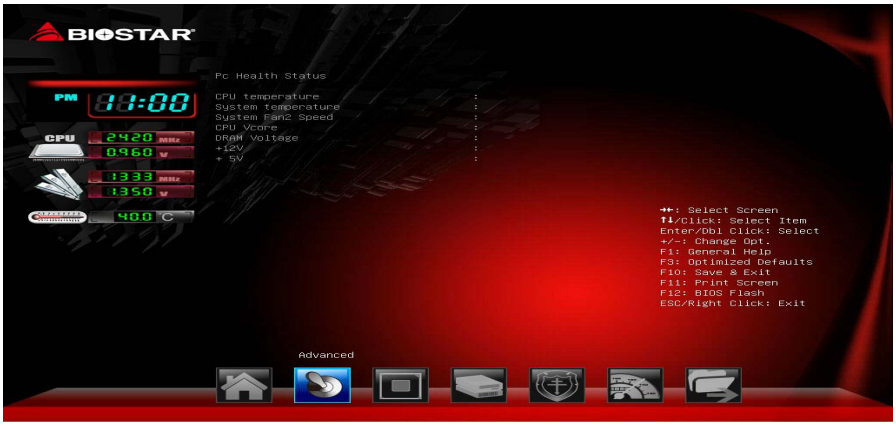



**System Smart Fan2**

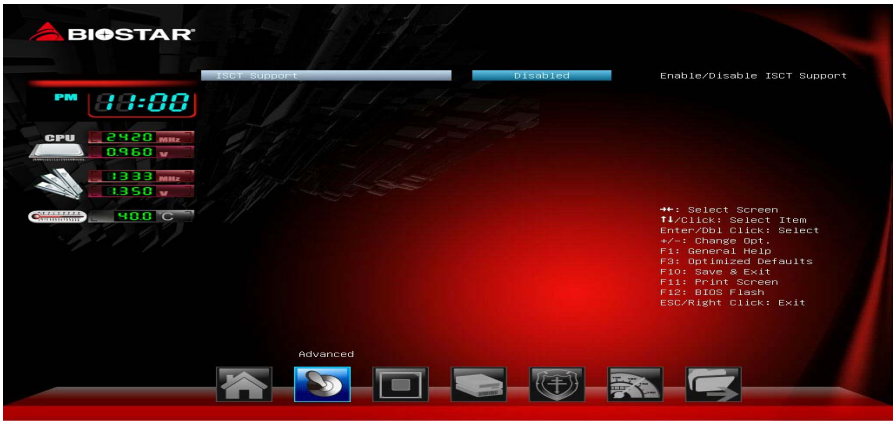
This item allows you to control the System Smart Fan function.

Options: Auto (Default) / Full Running

## IT8627E H/W Monitor



## Intel (R) Smart Connect Technology




### ISCT Support

This item enables/disables ISCT Support.

Options: Disabled (Default) / Enabled

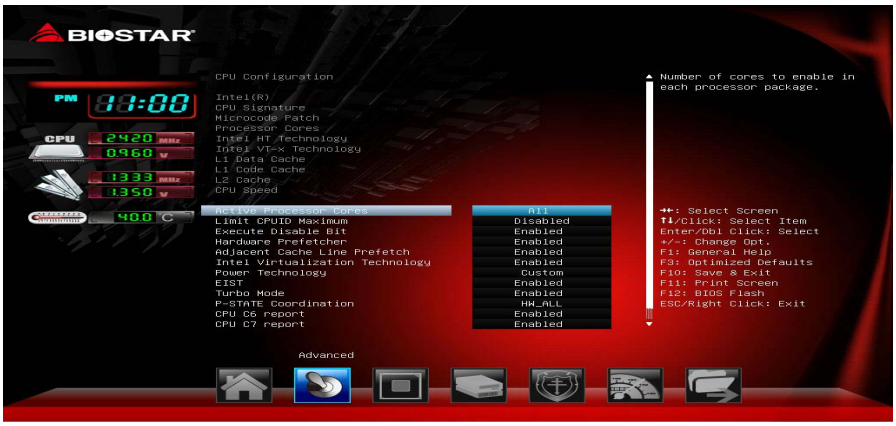
Note: The following items appear only when you set the ISCT Support function to [Enabled]

### ISCT Notification Control

Options: Enabled (Default)

### CPU Configuration

This item shows CPU Information




### Active Processor Cores

This item sets number of cores to enable in each processor package.

Options: All (Default) / 1

**Limit CPUID Maximum**

Disabled for Windows XP

Options: Disabled (Default) / Enabled

**Execute-Disable Bit**

XD can prevent certain classes of malicious buffer overflow attacks when combined with a supporting OS (Windows Server 2003 SP1, Windows XP SP2, SuSE Linux 9.2, Red Hat Enterprise 3 Update 3.).

Options: Enabled (Default) / Disabled

**Hardware Prefetcher**

This item enables or disables the Mid Level Cache (L2) streamer Prefetcher.

Options: Enabled (Default) / Disabled

**Adjacent Cache Line Prefetch**

This item enables or disables the Mid Level Cache (L2) prefetching of adjacent cache lines.

Options: Enabled (Default) / Disabled

**Intel Virtualization Technology**

When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology

Options: Enabled (Default) / Disabled

**Power Technology**

This item enables or disables the power management features.

Options: Custom (Default) / Energy Efficient / Disable

**EIST**

This item enables or disables Intel SpeedStep.

Options: Enabled (Default) / Disabled

**Turbo Mode**

This item enables or disables Turbo Mode.

Options: Enabled (Default) / Disabled

**P-STATE Coordination**

This item changes P-STATE coordination type.

Options: HW_ALL (Default) / SW_ALL / SW_ANY

**CPU C6 report**

This item enables or disables CPU C6 (ACPI C3) report to OS.

Options: Enabled (Default) / Disabled

**CPU C7 report**

This item enables or disables CPU C7 (ACPI C3) report to OS.

Options: Enabled (Default) / Disabled

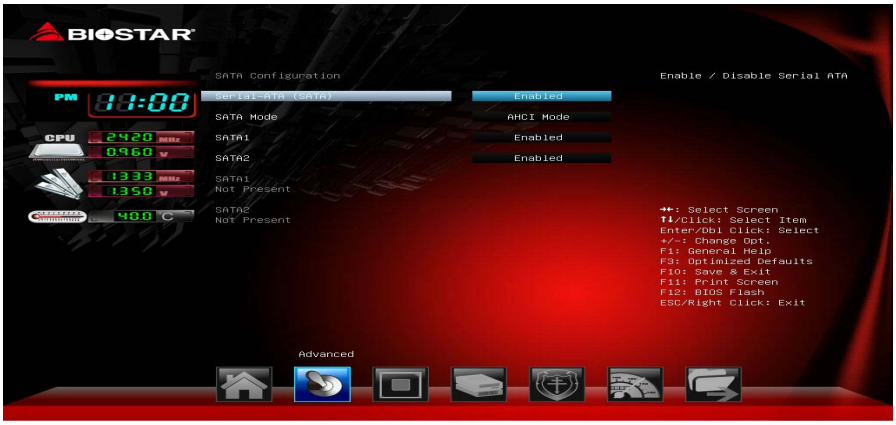
**Package C State limit**

This item sets Package C State limit.

Options: No Limit (Default) / C0 / C1 / C3 / C6 / C7

**SATA Configuration**

The BIOS will automatically detect the presence of SATA devices.




**Serial-ATA (SATA)**

This item enables/disables Serial ATA Device.

Options: Enabled (Default) / Disabled

**SATA Mode**

This item determines how SATA controller(s) operate.

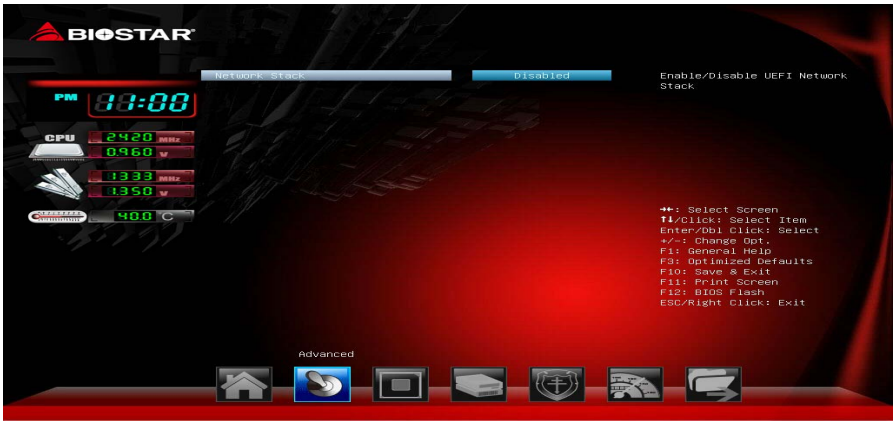
Options: AHCI Mode (Default) / IDE Mode

**SATA1**

This item enables/disables Serial ATA Port1.

Options: Enabled (Default) / Disabled

## Network Stack Configuration




**Network Stack**

This item enables or disables UEFI network stack

Options: Disabled (Default) / Enabled

Note: The following items appear only when you set the Network Stack function to [Enabled]

**IPv4 PXE Support**

This item enables or disables IPv4 PXE Boot Support. If disabled IPv4 booth option will not be created.

Options: Enabled (Default) / Disabled

**IPv6 PXE Support**

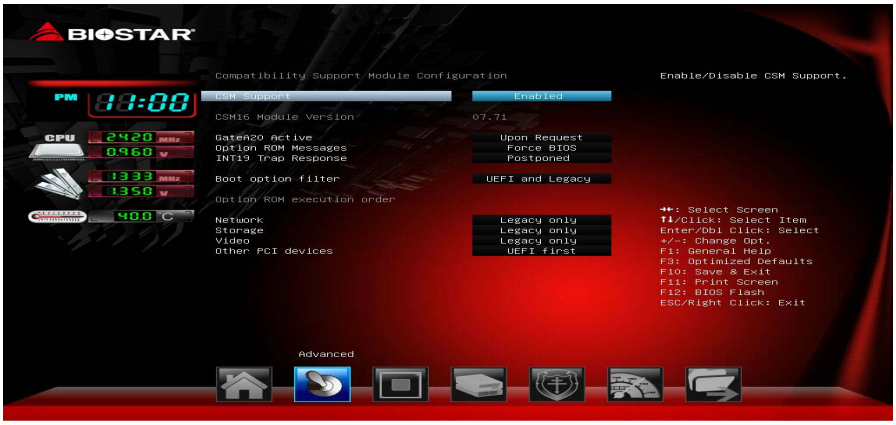
This item enables or disables IPv6 PXE Boot Support. If disabled IPv6 booth option will not be created.

Options: Enabled (Default) / Disabled

**PXE boot wait time**

Wait time to press ESC key to abort the PXE boot.

## CSM Configuration




**CSM Support**

This item enables or disables CSM Support

Options: Enabled (Default) / Disabled

**GateA20 Active**

Upon Request – FA20 can be disabled using BIOS services. Always – do not allow disabling GA20; this option is useful when any RT code is executed above 1MB

Options: Upon Request (Default) / Always

**Option ROM Messages**

This item sets the display mode for option ROM.

Options: Force BIOS (Default) / Keep Current

**INT19 Trap Response**

BIOS reaction on INT19 trapping by Option ROM: IMMEDIATE – execute the trap right away; POSTPONED – execute the trap during legacy boot.

Options: Postponed (Default) / Immediate

**Boot option filter**

This option controls what devices system can boot to.

Options: UEFI and Legacy (Default) / Legacy only / UEFI only

**Network**

This item controls the execution of UEFI and Legacy PXE OpROM

Options: Legacy only (Default) / Do not launch / UEFI only / Legacy first / UEFI first

**Storage**

This item controls the execution of UEFI and Legacy Storage OpROM

Options: Legacy only (Default) / Do not launch / UEFI only / Legacy first / UEFI first

**Video**

This item controls the execution of UEFI and Legacy Video OpROM

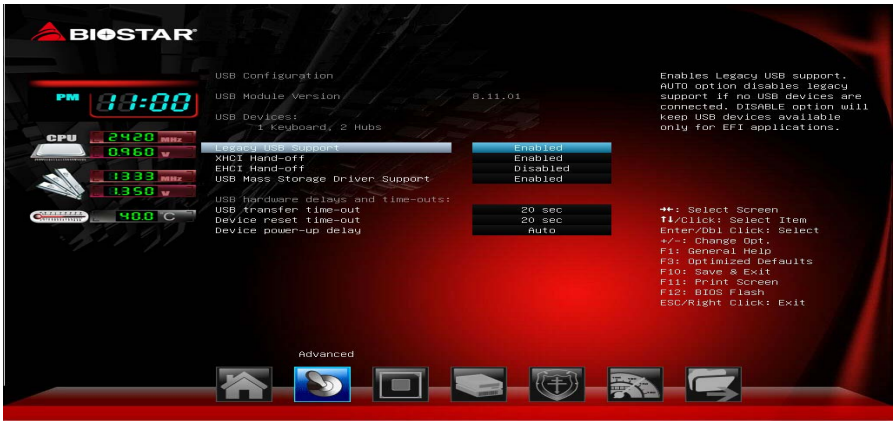
Options: Legacy only (Default) / Do not launch / UEFI only / Legacy first / UEFI first

**Other PCI device**

It determines OpROM execution policy for devices other than Network, Storage, or video.

Options: UEFI first (Default) / Legacy only

**USB Configuration**




**Legacy USB Support**

The item allows you to enable Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

Options: Enabled (Default) / Disabled / Auto

**XHCI Hand-off**

This is workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.

Options: Enabled (Default) / Disabled

**EHCI Hand-off**

This is workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

Options: Disabled (Default) / Enabled

**USB Mass Storage Driver Support**

The item allows you to enable or disable USB Mass Storage Driver Support.

Options: Enabled (Default) / Disabled

**USB transfer time-out**

The time-out value for Control, Bulk, and Interrupt transfers.

Options: 20 sec (Default) / 1 sec / 5 sec / 10 sec

**Device reset time-out**

The item sets USB mass storage device Start Unit command time-out.

Options: 20 sec (Default) / 10 sec / 30 sec / 40 sec

**Device power-up delay**

“Auto” uses default value: for a Root port it is 100ms, for a Hub port the delay is taken from Hub descriptor.

Options: Auto (Default) / Manual

Note: The following items appear only when you set the Device power-up delay function to [Manual]

**Device power-up delay in seconds**

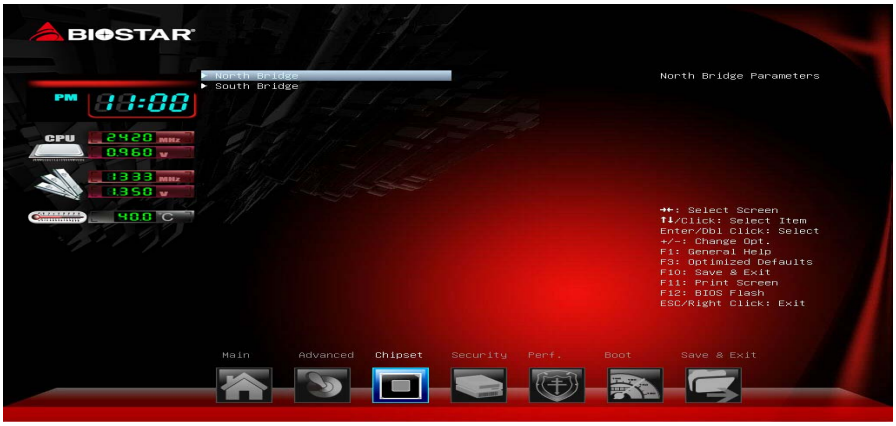
Delay range is 1 ~ 40 seconds, in one second increments.

Options: 5 (Default)

# Chipset Menu

This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itself uses when communicating with its own special components.

**<Notice>** Beware of that setting inappropriate values in items of this menu may cause system to malfunction.




## North Bridge


### Integrated Graphics Device

Enable: Enable Integrated Graphics Device (IGD) when selected as the Primary Video Adaptor. Disable: Always disable IGD.

Options: Auto (Default) / Disabled

**IGD Turbo Enable**

Enable: IGD Turbo Enable. Disable: IGD Turbo Disable.

Options: Enabled (Default) / Disabled

**Primary Display**

This item selects which of IGD/PCI Graphics device should be Primary Display.

Options: IGD (Default) / PCI

**PAVC**

This item enables/disables Protected Audio Video Control.

Options: LITE Mode (Default) / Disabled / SERPENT Mode

**DVMT Pre-Allocated**

This item selects DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Options: 64M (Default) / 96M / 128M / 160M / 192M / 224M / 256M / 288M / 320M / 352M / 384M / 416M / 448M / 480M / 512M

**DVMT Total Gfx Mem**

This item selects DVMT5.0 Total Graphic Memory size used by the Internal Graphics Device.

Options: 256MB (Default) / 128MB / MAX

**Aperture Size**

This item selects the Aperature Size.

Options: 256MB (Default) / 128MB / 512MB

**GTT Size**

This item selects the GTT Size.

Options: 2MB (Default) / 1MB

**RC6 (Render Standby)**

This item enables or disables render standby support.

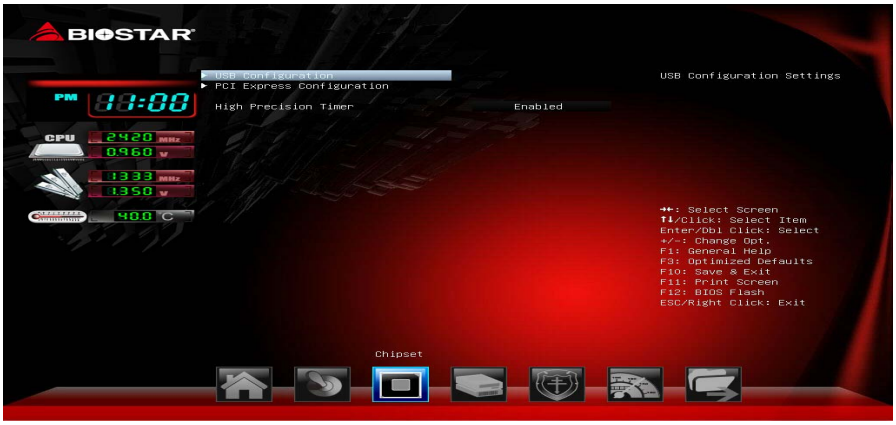
Options: Enabled (Default) / Disabled

**Max TOLUD**

Maximum Value of TOLUD

Options: Dynamic (Default) / 1 GB / 1.25 GB / 1.5 GB / 1.75 GB / 2 GB / 2.25 GB / 2.5 GB / 2.75 GB / 3 GB

## South Bridge




## USB Configuration


**XHCI Mode**

This item enables or disables mode of operation of xHCI controller.

Options: Smart Auto (Default) / Auto / Enabled / Disabled

**USB 2.0(EHCI) Support**

This item controls the USB EHCI (USB2.0) functions. One EHCI controller must always be enabled.

Options: Disabled (Default) / Enabled

**USB Per Port Controller**

This item controls each of the USB ports(0-3). Enable: Enable USB per port; Disable: Use USB port x setting.

Options: Enabled (Default) / Disabled

**USB Port 0/1/2/3**

This item enables/disables USB port 0/1/2/3

Options: Enabled (Default) / Disabled

**PCI Express Configuration**


**ASPM**

This item sets PCI Express Active State Power Management settings.

Options: Auto (Default) / L0s / L1 / L0sL1 / Disabled

**Speed**

This item selects PCI Express port speed.

Options: Auto (Default) / Gen1 / Gen2

**Onboard Lan**

This item enables/disables the PCI Express Port 2 in the Chipset.

Options: Enabled (Default) / Disabled

**Onboard LAN Option ROM**

This item enables/disables Onboard LAN Option ROM.

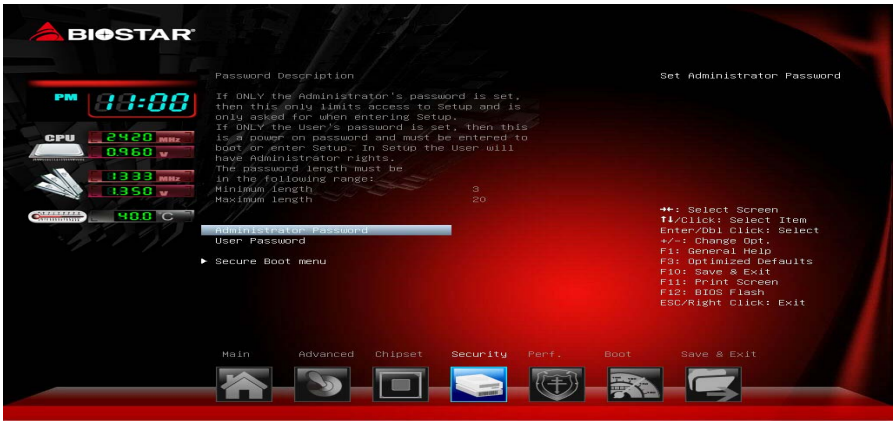
Options: Disabled (Default) / Enabled

**High Precision Timer**

This item enables/disables the High Precision Event Timer.

Options: Enabled (Default) / Disabled

# Security Menu



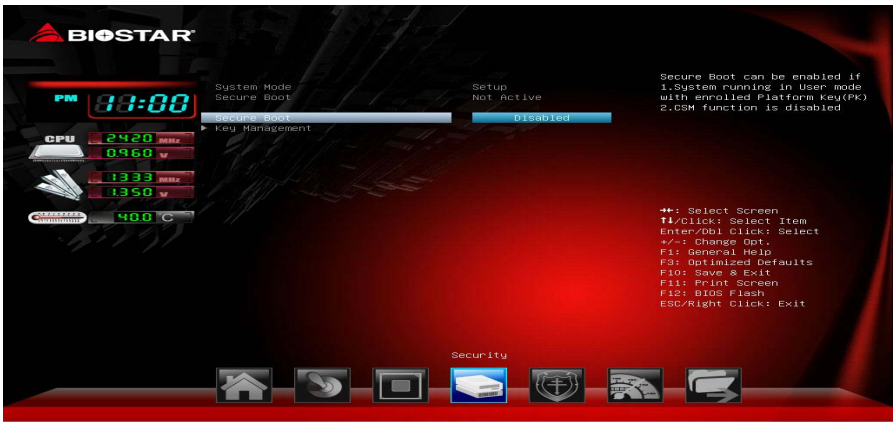

**Administrator Password**

This item sets Administrator Password.

**User Password**

This item sets User Password.

**Secure Boot Menu**



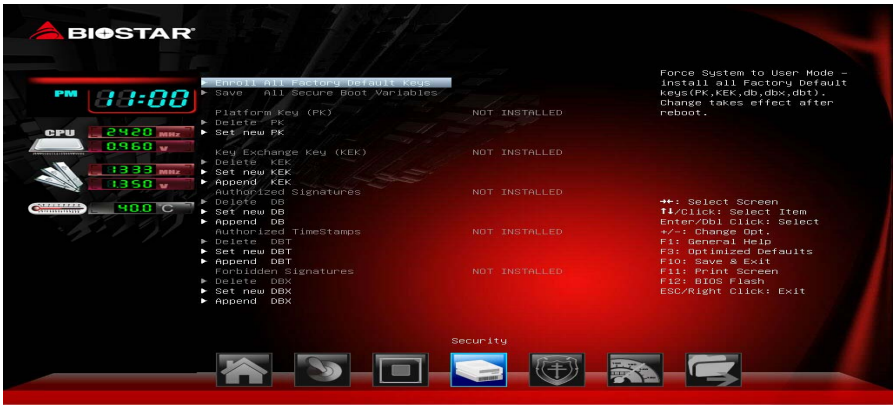

**Secure Boot**

Secure Boot flow control. Secure Boot can be enabled only when 1. Platform Key (PK) is enrolled and Platform is operating in user mode and 2.CSM function is disabled in Setup.

Options: Disabled (Default) / Enabled

Note: The following items appear only when you set the Secure Boot function to [Enabled]

## Key Management




**Enroll All Factory Default Keys**

Forces system to user Mode – Install all Factory Default keys (PK, KEK, dbx, dbt). Change takes effect after boot.

**Platform Key (PK)**

Delete PK – Allows you to delete the PK file from your system.

Set new PK – Allows you set new PK file.

**Key Exchange Key Database (KEK)**

Delete KEK – Allows you to delete the KEK file from your system.

Set new KEK – Allows you set new KEK file.

Append Var to KEK – Allows you append Var to KEK.

**Authorized Signature Database (DB)**

Delete DB – Allows you to delete the DB file from your system.

Set new DB – Allows you set new DB file.

Append Var to DB – Allows you append Var to DB.

**Authorized TimeStamps (DBT)**

Delete DB – Allows you to delete the DBT file from your system.

Set new DB – Allows you set new DBT file.

Append Var to DB – Allows you append Var to DBT.

**Forbidden Signature Database (DBX)**

Delete DBX – Allows you to delete the DBX file from your system.

Set new DBX – Allows you set new DBK file.

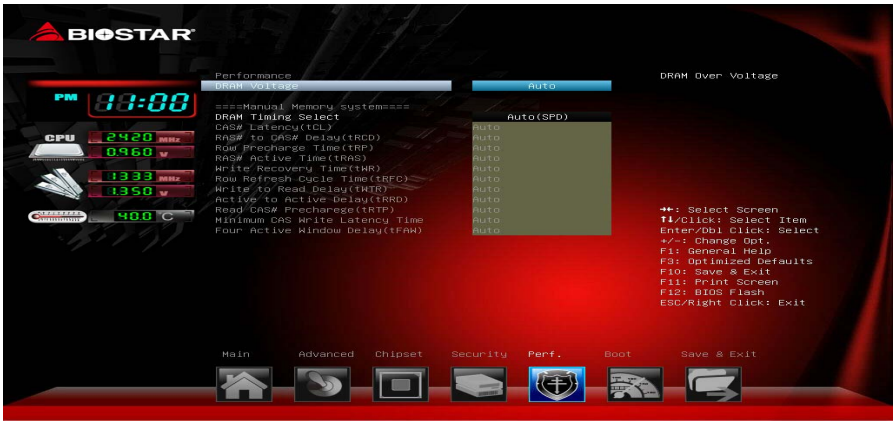
Append Var to DBX – Allows you append Var to DBX.

# Performance Menu

This submenu allows you to change voltage and clock of various devices. (However, we suggest you use the default setting. Changing the voltage and clock improperly may damage the device.)

**Notice**

- Beware of that setting inappropriate values in items of this menu may cause system to malfunction.
- The options and default settings might be different by RAM or CPU models.




**DRAM Voltage**

This item sets DRAM Voltage.

Options: Auto (Default) / 1.35V / 1.40V / 1.45V / 1.50V

**DRAM Timing Select**

This item sets DRAM Timing Select.

Options: Auto (SPD) (Default) / Manual

Note: The following items appear only when you set the DRAM Timing Select function to [Manual]

**CAS# Latency (tCL)**

This item allows you to select CAS Latency, Range 4-24

Options: Auto (Default)

**RAS# to CAS# Delay (tRCD)**

This item allows you to select Row Address to Column Address Delay, Range 3-20

Options: Auto (Default)

**Row Precharge Time (tRP)**

This item allows you to select Row Precharge Time, Range 3-15

Options: Auto (Default)

**RAS# Active Time (tRAS)**

This item allows you to select Row Active Time, Range 9-63

Options: Auto (Default)

**Write Recovery Time (tWR)**

This item allows you to select Internal Write to Read Command Delay, Range 5-16

Options: Auto (Default)

**Row Refresh Cycle Time (tRFC)**

This item allows you to select Minimum Refresh Recovery Time, Range 1-511

Options: Auto (Default)

**Write to Read Delay (tWTR)**

This item allows you to select Internal Write to Read Command Delay, Range 3-31

Options: Auto (Default)

**Active to Active Delay (tRRD)**

This item allows you to select Row Active to Row Active Delay, Range 4-15

Options: Auto (Default)

**Read CAS# Precharge (tRTP)**

This item allows you to select Read to Precharge Delay, Range 4-15

Options: Auto (Default)

**Minimum CAS Write Latency Time**

This item allows you to select Minimum CAS Write Latency Range, Range 5-12

Options: Auto (Default)

**Four Active Window Delay (tFAW)**

This item allows you to select Four Active Window Delay, Range 10-63

Options: Auto (Default)

# Boot Menu

This menu allows you to setup the system boot options.


**Setup Prompt Timeout**

This item sets number of seconds to wait for setup activation key.

Options: 1 (Default)

**Bootup NumLock State**

This item selects the keyboard NumLock state.

Options: On (Default) / Off

**Full Screen Logo Display**

This item allows you to enable/disable Full Screen Logo Show function.

Options: Enabled (Default) / Disabled

**BIOS Flash protection**

While enabled, it can't flash write and flash erase by SMI.

Options: Enabled (Default) / Disabled

**Boot Success Beep**

When this item is set to Enabled, BIOS will let user know boot success with beep.

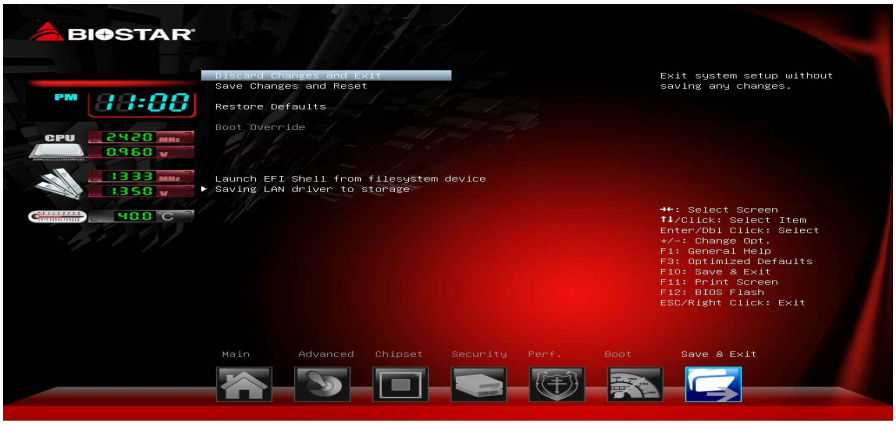
Options: Enabled (Default) / Disabled

**Boot Option Priorities**

The items specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.

# Exit Menu

This menu allows you to load the optimal default settings, and save or discard the changes to the BIOS items.




**Discard Changes and Exit**

Abandon all changes made during the current session and exit setup.

**Save Changes and Reset**

Reset the system after saving the changes.

**Restore Defaults**

This selection allows you to reload the BIOS when problem occurs during system booting sequence. These configurations are factory settings optimized for this system.

**Launch EFI Shell from filesystem device**

This item attempts to EFI Shell application (Shellx64.efi) from one of the available filesystem devices.

**Saving LAN driver to storage**

Saving LAN driver to storage (WIN7_X86.EXE, WIN7_X64.EXE. Saving format support FAT16/FAT32).

# Chapter 4: BIOS Update & Software

## BIOS Update

The BIOS can be updated using either of the following utilities:

- BIOSTAR BIOS Flasher: Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM.
- BIOSTAR BIOS Update Utility: It enables automated updating while in the Windows environment. Using this utility, the BIOS can be updated from a file on a hard disk, a USB drive (a flash drive or a USB hard drive), or a CD-ROM, or from the file location on the Web.

### BIOSTAR BIOS Flasher

BIOSTAR BIOS Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive.

**Note1:** This utility only allows storage device with FAT32/16 format and single partition.

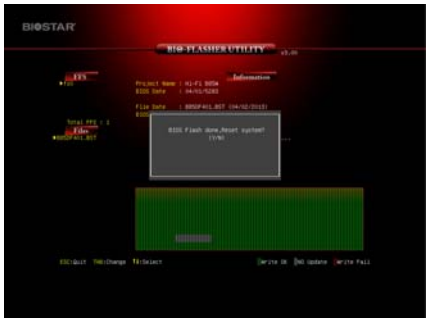
**Note2:** Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

**Updating BIOS with BIOSTAR BIOS Flasher**

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, copy and save the BIOS file into a USB flash (pen) drive.
3. Insert the USB pen drive that contains the BIOS file to the USB port.
4. Power on or reset the computer and then press <F12> during the POST process.
5. After entering the POST screen, the BIOS-FLASHER utility pops out. Choose [fs0] to search for the BIOS file.

6. Select the proper BIOS file, and a message asking if you are sure to flash the BIOS file. Click Yes to start updating BIOS.

7. A dialog pops out after BIOS flash is completed, asking you to restart the system. Press the [Y] key to restart system.



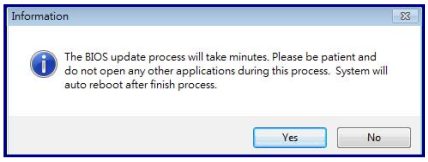
8. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
   After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.

## BIOS Update Utility (through the Internet)

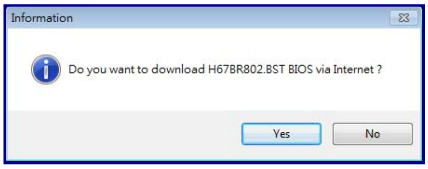
1. Installing BIOS Update Utility from the DVD Driver.
2. Please make sure the system is connected to the internet before using this function.

3. Launch BIOS Update Utility and click the **Online Update** button on the main screen.

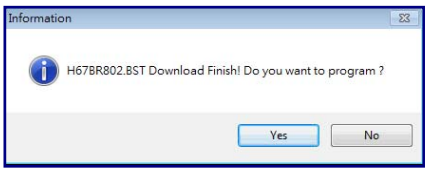
4. An open dialog will show up to request your agreement to start the BIOS update. Click **Yes** to start the online update procedure.



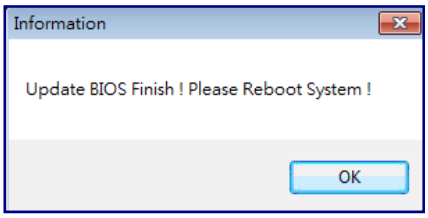

5. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.




6. After the download is completed, you will be asked to program (update) the BIOS or not. Click **Yes** to proceed.




7. After the updating process is finished, you will be asked you to reboot the system. Click **OK** to reboot.



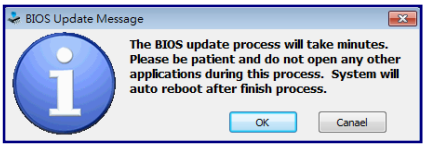

8. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
   After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.

## BIOS Update Utility (through a BIOS file)

1. Installing BIOS Update Utility from the DVD Driver.
2. Download the proper BIOS from http://www.biostar.com.tw/

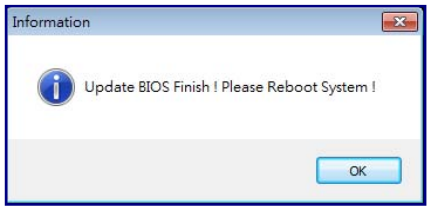
3. Launch BIOS Update Utility and click the **Update BIOS** button on the main screen.

4. A warning message will show up to request your agreement to start the BIOS update. Click **OK** to start the update procedure.




5. Choose the location for your BIOS file in the system. Please select the proper BIOS file, and then click on **Open**. It will take several minutes, please be patient.

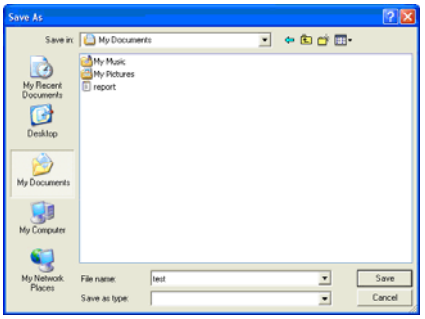

6. After the BIOS Update process is finished, click on **OK** to reboot the system.




7. While the system boots up and the full screen logo shows up, press <DEL> key to enter BIOS setup.
After entering the BIOS setup, please go to the **Save & Exit**, using the **Restore Defaults** function to load Optimized Defaults, and select **Save Changes and Reset** to restart the computer. Then, the BIOS Update is completed.

**Backup BIOS**

Click the Backup BIOS button on the main screen for the backup of BIOS, and select a proper location for your backup BIOS file in the system, and click **Save**.



# Software

## Installing Software

1. Insert the Setup DVD to the optical drive. The driver installation program would appear if the Auto-run function has been enabled.
2. Select **Software Installation**, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

## Launching Software

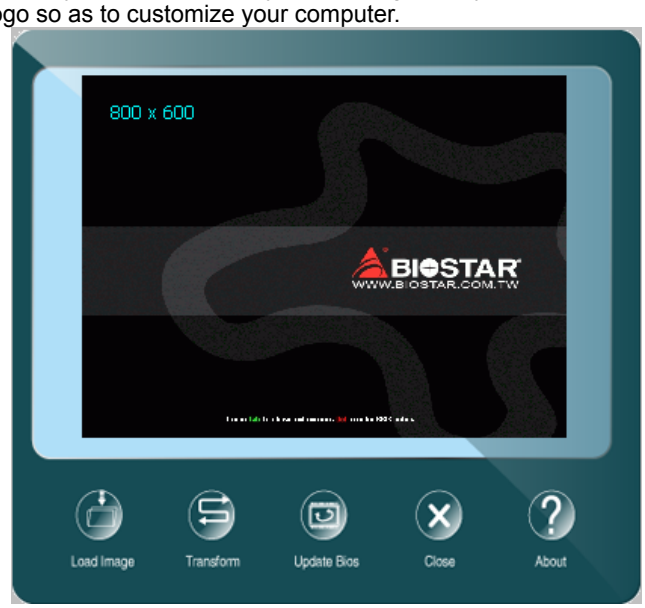
After the installation process is completed, you will see the software icon showing on the desktop. Double-click the icon to launch it.

**Note1:** All the information and content about following software are subject to be changed without notice. For better performance, the software is being continuously updated.

**Note2:** The information and pictures described below are for your reference only. The actual information and settings on board may be slightly different from this manual.

## BIOScreen Utility

This utility allows you to personalize your boot logo easily. You can choose BMP as your boot logo so as to customize your computer.



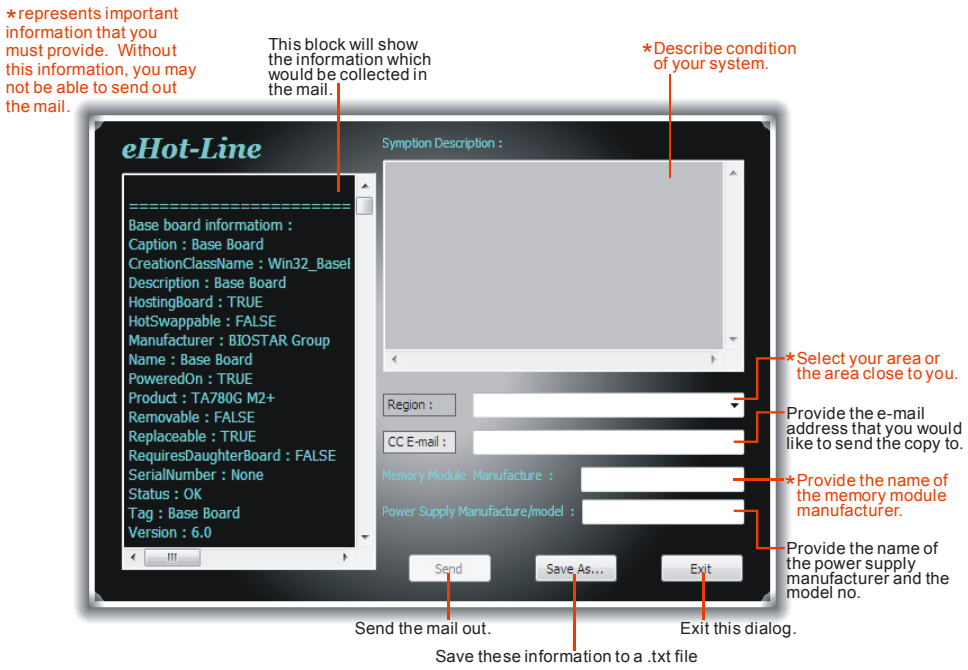

Please follow the step-by-step instructions below to update boot logo:

- Load Image：Choose the picture as the boot logo.
- Transform：Transform the picture for BIOS and preview the result.
- Update Bios：Write the picture to BIOS Memory to complete the update.

## eHot-Line

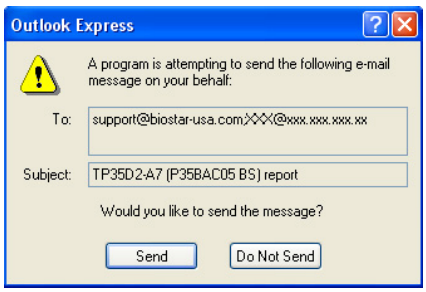
eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.

**Note:** Before you use this utility, please set Outlook Express as your default e-mail client application program.

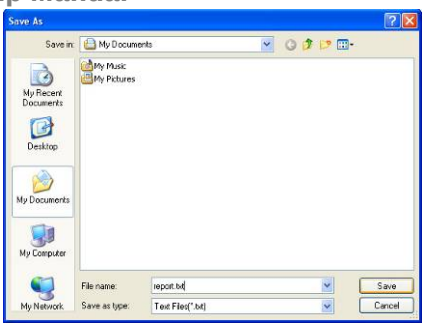



After filling up this information, click "**Send**" to send the mail out. A warning dialog would appear asking for your confirmation; click "**Send**" to confirm or "**Do Not Send**" to cancel.

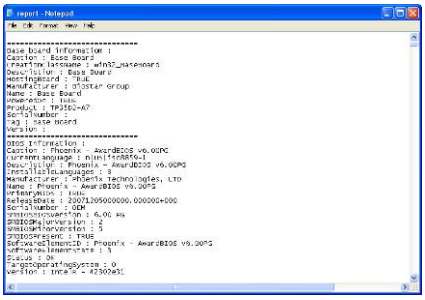
If you want to save this information to a .txt file, click "**Save As…**" and then you will see a saving dialog appears asking you to enter file name.



Enter the file name and then click "**Save**". Your system information will be saved to a .txt file.




Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/ device/OS information. This information is also concluded in the sent mail.




**Note1:** We will not share customer's data with any other third parties, so please feel free to provide your system information while using eHot-Line service.

**Note2:** If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following website http://www.biostar.com.tw/app/en/about/contact.php for getting our contact information.

## Smart Connect Technology

Intel® Smart Connect Technology is designed to update programs by periodically waking your computer from sleep/standby mode for a short time. This function works with applications that automatically get their data from the Internet.

**System Requirement:**

- Intel Smart Connect Technology enabled in BIOS Setup
- Set the “ACPI Sleep State” to S3 in BIOS Setup.
- Windows 7, Windows 8 and Windows 8.1
- Normal internet connection

**Configuring Intel Smart Connect Technology**

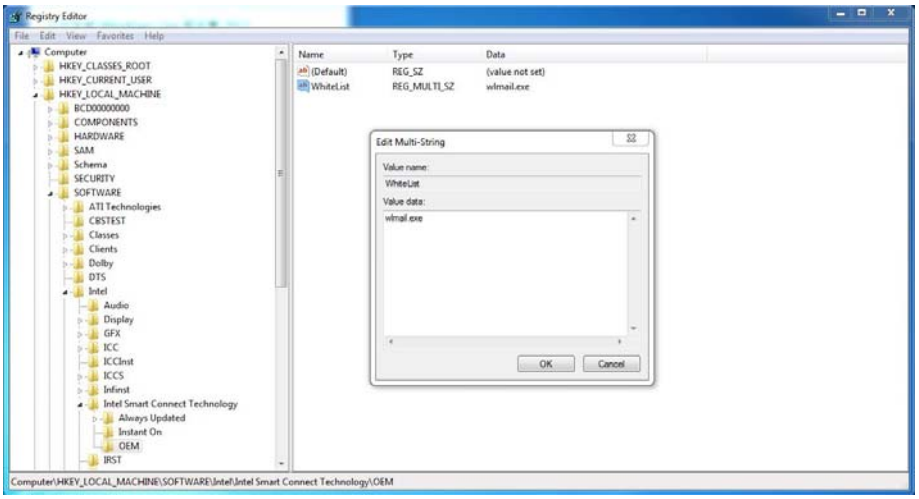
**Step 1:** After installing the operating system and motherboard drivers, install the Intel Smart Connect Technology application. Restart your computer when completed.

**Step 2:** Click on start menu and input "regedit" in the search bar. Press enter to open the registry editor. Look for the following directory in the registry editor: Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Intel Smart Connect Technology

Right-click on Intel Smart Connect Technology and select New > Key. Type “OEM”.

**Note:** Intel Smart Connect Technology is for S3 mode only. During the updating process, the monitor will not light up and no sound will be output from the speaker.

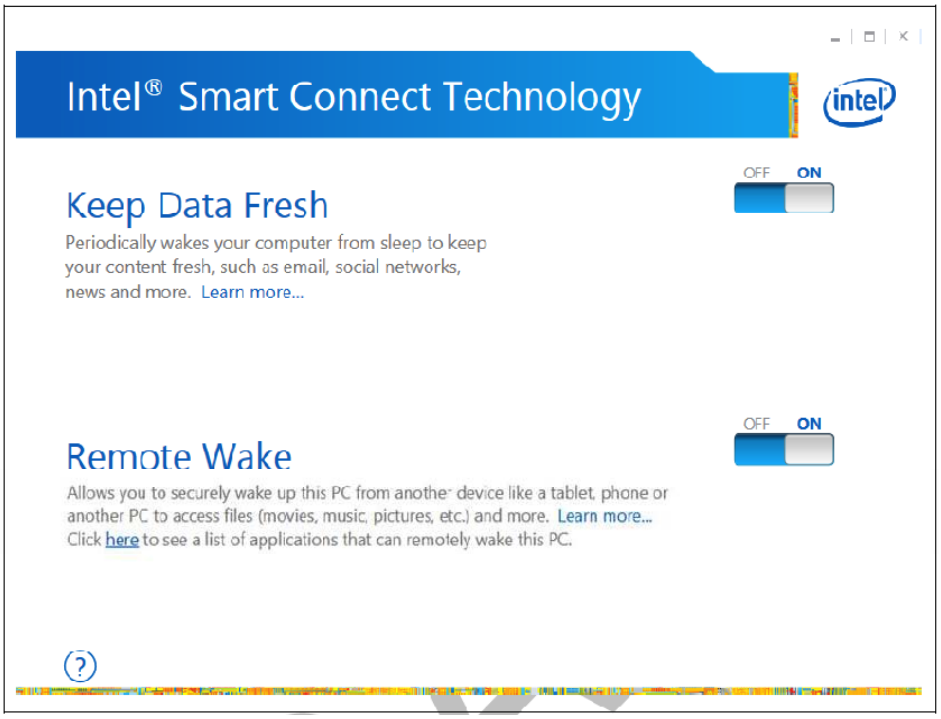
**Step 3:** As shown in the screenshot below, right-click on OEM, select New > Multi-String Value, and type “WhiteList”. Double-click WhiteList and type the application name to be added in Edit Multi-String. For example, to add Microsoft Live Mail, type “wlmail.exe”. Restart your computer when completed.




**Step 4:** After completing the steps above, go to Start\All Programs\Intel and launch Intel(R) Smart Connect Technology.

**Configuration Utility**

The Intel Smart Connect Technology Configuration Utility allows configuration of the sleep duration, extended hours sleep duration, and viewing of the Event History along with other settings. To launch the application, select the application “Intel® Smart Connect Technology in the Start menu (Windows* 7) or Start screen (Windows* 8/8.1) to launch the configuration GUI. Once launched, the following is presented:




**Note:** For detailed setting of Intel® Smart Connect Technology, please check the below link.
http://www.intel.com/support/services/smartconnect/sb/CS-033109.htm

# Chapter 5: Useful Help

## Driver Installation

After you installed your operating system, please insert the Fully Setup Driver DVD into your optical drive and install the driver for better system performance.
You will see the following window after you insert the DVD


The setup guide will auto detect your motherboard and operating system.

### A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

### B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

### C. Manual

Aside from the paperback manual, we also provide manual in the Driver DVD. Click on the Manual icon to browse for available manuals.

**Note1:** If this window didn't show up after you insert the Driver DVD, please use file browser to locate and execute the file SETUP.EXE under your optical drive.
**Note2:** You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from http://get.adobe.com/reader/
**Note3:** Intel(R) Trusted Execution Engine Interface Driver is only supported with Windows 8/8.1 & Windows 7. For Windows 7 user, please install Microsoft Kernel-Mode Driver Framework (KMDF) version 1.1. Otherwise, you found a yellow bang appears as "Intel Trusted Execution Engine Interface" under system device manager. Also, you can follow the Microsoft instructions from the link: KB2685811. http://support.microsoft.com/kb/2685811

# Troubleshooting

| Probable | Solution |
|---|---|
| 1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work<br>2. Indicator light on keyboard does not shine. | 1. Make sure power cable is securely plugged in.<br>2. Replace cable.<br>3. Contact technical support. |
| System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running. | Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place. |
| System does not boot from a hard disk drive, but can be booted from optical drive. | 1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup.<br>2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time. |
| System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk. | 1. Back up data and applications files.<br>2. Reformat the hard drive. Re-install applications and data using backup disks. |
| Screen message shows “Invalid Configuration” or “CMOS Failure.” | Review system’s equipment. Make sure correct information is in setup. |
| System cannot boot after user installs a second hard drive. | 1. Set master/slave jumpers correctly.<br>2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives. |

# Appendix: Specification In Other Languages

## Arabic

| | | |
|---|---|---|
| **المعالج** | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| **الجرافيكس** | مشغل سلسلة جرافيكس®Intel عالية الدقة المتكاملة | |
| **الذاكرة** | يدعم القناة المزدوجة DDR3L 1333 (1.35 فولت/ 1.5 فولت)<br>فتحة ذاكرةSO-DIMM 2x DDR3L، ذاكرةتدعم ما يصل إلى 16 جيجا بايت كحد أقصى<br>كل DIMMتدعمECC non-512 ميجابايت/ 1/ 2/ 4/ 8 جيجا بايت وحدة DDR3L<br>* يرجى الرجوع إلى www.biostar.com.tw لقائمة دعم الذاكرة. | |
| **الشبكات** | LAN (RTL8111G) | جيجا بايت إيثرنت، منفذ RJ-45 ×1 |
| | WLAN (وحدة واي فاي تباع بشكل منفصل) | موصل PCIe مصغر ×1 |
| **الصوت** | Realtekترميز ALC662، يدعم منفذ ×2 مع مخرط خط/ مدخل ميكرفون | |
| **التحزين** | موصل SATA II ×1، معدلات نقل بيانات تصل إلى 3.0 جيجابايت/ ثانية | |
| **I/O الخلفي** | منفذ تيار مستمر (مدخل تيار مستمر 19 فولت) | 1x |
| | منفذ USB 3.0 | 1x |
| | منفذ USB 2.0 | 1x |
| | منفذ LanRJ-45جيجابايت | 1x |
| | موصل HDMI | 1x |
| | موصل VGA | 1x |
| | مخرج الخط | 1x |
| | مدخل ميكرفون | 1x |
| **I/O الأمامي** | منفذ USB 2.0 | 2x |
| | زر تشغيل الطاقة | 1x |
| **البيئة** | درجة حرارة التشغيل | 0 درجة مئوية ~ 40 درجة مئوية (32 درجة فهرنهايت ~ 100 درجة فهرنهايت) |
| | درجة حرارة التخزين | -20 درجة مئوية ~ 60 درجة مئوية (-4 درجة فهرنهايت ~ 140 درجة فهرنهايت) |
| | الرطوبة النسبية | 20٪ ~ 80٪ دون تكاثف |
| **مزود الطاقة** | 19 فولت/ 45 وات | |
| **دعم نظام التشغيل** | ويندوز 7 / 8 / 8.1<br>تحتفظ شركة بيوستار "Biostar" بالحق في إضافة أو إزالة الدعم عن أي نظام تشغيل مع أو بدون سابق إنذار. | |
| **التركيب** | حامل الأقدام | |
| | حامل تركيب VESA 75/100 (اختياري) | |
| **الأبعاد** | 210 مم (طول) × 40 مم (عرض) × 185 مم (ارتفاع) | |
| **الوزن** | 0.8 كجم | |
| **التوافق التنظيمي** | CE/FCC | |

# French

| | | |
|---|---|---|
| Processeur | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| Graphique | Intégré Intel® HD Série Graphique Moteur Graphique | |
| Mëmoire | Soutient Canal double DDR3L 1333 (1.35V/1.5V)<br>2x DDR3L SO-DIMM Créneau de Mémoire, Max. Supporte jusqu'à 16 GB de Mémoire<br>Chaque DIMM supporte non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L Module<br>* Référez-vous s'il vous plaît à www.biostar.com.tw pour la liste de soutien de mémoire. | |
| Circuit | LAN (RTL8111G) | 1x Gigabit Ethernet, RJ-45 Port |
| | WLAN (Wi-Fi module vendu séparément) | 1x Mini PCIe Connecteur |
| Audio | Realtek Codec ALC662, Soutient 2x Port avec Line-sortie / MIC-entrée | |
| Stockage | 1x SATA II connecteur, taux de transfert de données jusqu'à 3.0Gb/s | |
| Arrière I/O | DC Jack (19V DC-in) | 1x |
| | USB 3.0 Port | 1x |
| | USB 2.0 Port | 1x |
| | RJ-45 Gigabit Lan Port | 1x |
| | HDMI Connecteur | 1x |
| | VGA Connecteur | 1x |
| | Line-sortie | 1x |
| | Mic-entrée | 1x |
| Avant I/O | USB 2.0 Port | 2x |
| | Bouton de Puissance | 1x |
| Milieu | Température de Fonctionnement | 0°C ~ 40°C (32°F ~ 100°F) |
| | Température de Stockage | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Humidité Relative | 20% ~ 80% Sans Condensation |
| Alimentation Électrique | 19V/45W | |
| OS Soutien | Windows 7 / 8 / 8.1<br>Biostar se réserve le droit de ajouter ou de supprimer du support OS avec ou sans notification. | |
| Fixation | Support de Pie | |
| | VESA 75/100 Support de Fixation (Optional) | |
| Dimensions | 210mm (Longeur) x 40mm (Largeur) x 185mm (H) | |
| Poids | 0.8 kg | |
| Conformité à la réglementation | CE/FCC | |

# German

| | | |
|---|---|---|
| Prozessor | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| Grafik | Integrierter Intel® HD Grafik Serie grafischer Motor | |
| Speicher | Unterstützt Doppelkanal DDR3L 1333 (1.35V/1.5V)<br>2x DDR3L SO-DIMM Speicher Schlitz, Max. Unterstützt bis 16 GB Speicher<br>Jeder DIMM unterstützt non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L Modul<br>* Bitte konsultieren Sie www.biostar.com.tw für die Unterstützungsliste des Speichers. | |
| Netzwerk | LAN (RTL8111G) | 1x Gigabit Ethernet, RJ-45 Anschluss |
| | WLAN (Wi-Fi Modul wird separat verkauft) | 1x Mini PCIe Steckverbinder |
| Audio | Realtek Codec ALC662, Unterstützung 2x Anschluss mit Line out / MIC in | |
| Lager | 1x SATA II Steckverbinder, Daten Übertragungsrate bis zu 3.0Gb/s | |
| Rückseite I/O | DC Klinkenstecker (19V DC-in) | 1x |
| | USB 3.0 Anschluss | 1x |
| | USB 2.0 Anschluss | 1x |
| | RJ-45 Gigabit Lan Anschluss | 1x |
| | HDMI Steckverbinder | 1x |
| | VGA Steckverbinder | 1x |
| | Line-Out | 1x |
| | Mic-In | 1x |
| Forderseite I/O | USB 2.0 Anschluss | 2x |
| | Leistung auf Taste | 1x |
| Umgebung | Betriebstemperatur | 0°C ~ 40°C (32°F ~ 100°F) |
| | Lagertemperatur | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Relative Luftfeuchtigkeit | 20% ~ 80% nicht kondensierend |
| Netzteil | 19V/45W | |
| OS Unterstützung | Windows 7 / 8 / 8.1<br>Biostar behält sich das Recht vor Unterstützung hin zu fügen oder zu entfernen für jede OS mit oder ohne Ankündigung. | |
| Befestigung | Fußstand | |
| | VESA 75/100 Befestigungsklammer (Fakultativ) | |
| Größe | 210mm (L) x 40mm (B) x 185mm (H) | |
| Gewicht | 0.8 kg | |
| Regulierungsbeachtung | CE/FCC | |

# Portuguese

| | | |
|---|---|---|
| Processador | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| Gráficos | Motor gráfico Intel® da série HD Graphics integrado | |
| Memória | Suporta Canal Duplo DDR3L 1333 (1.35V/1.5V)<br>Ranhura de Memória 2x DDR3L SO-DIMM, Max. Suporta até 16 GB de memória<br>Cada DIMM suporta módulo não-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L<br>* Por favor, refira awww.biostar.com.tw para a lista de suporte de memória. | |
| Rede | LAN (RTL8111G) | 1x Gigabit Ethernet, Porta RJ-45 |
| | WLAN (Módulo Wi-Fi vendido separadamente) | 1x Mini Conector PCIe |
| Áudio | Realtek Codec ALC662, Suporta 2x Portas com Line out / MIC in | |
| Armazenamento | 1x conector SATA II, transferência de dados até 3.0Gb/s | |
| I/O Traseiro | Porta DC (19V DC-in) | 1x |
| | Porta USB 3.0 | 1x |
| | Porta USB 2.0 | 1x |
| | Porta RJ-45 Gigabit Lan | 1x |
| | Conector HDMI | 1x |
| | Conector VGA | 1x |
| | Line-Out | 1x |
| | Mic-In | 1x |
| I/O Frontal | Porta USB 2.0 | 2x |
| | Botão de Power on (Ligar) | 1x |
| Ambiente | Temperatura de Funcionamento | 0°C ~ 40°C (32°F ~ 100°F) |
| | Temperatura de Armazenamento | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Humidade Relativa | 20% ~ 80% não condensante |
| Fonte de Alimentação | 19V/45W | |
| Assistência de SO | Windows 7 / 8 / 8.1<br>A Biostar reserva-se ao direito de adicionar ou retirar a assistência para qualquer SO, com ou sem aviso prévio. | |
| Montagem | Pés de apoio | |
| | Suporte de montagem VESA 75/100 (Opcional) | |
| Dimensões | 210mm (C) x 40mm (L) x 185mm (A) | |
| Peso | 0.8 kg | |
| Conformidade Regulamentar | CE/FCC | |

# Russian

| | | |
|---|---|---|
| Процессор | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| Графики | Интегрированные Intel® HD графики серии графического процессора | |
| Память | Поддерживает Двойной канал DDR3L 1333 (1.35V/1.5V)<br>2xDDR3L SO-DIMM Слот памяти, макс. поддерживает до 16Гб памяти<br>Каждый DIMM (модуль памяти с двухрядным расположением выводов) поддерживает не-ECC 512Мб/ 1/ 2/ 4/ 8 Гб DDR3L модуля<br>* Для перечня поддержания памяти смотрите www.biostar.com.tw. | |
| Вычислительная сеть | LAN (RTL8111G) | 1xГигабит Ethernet, RJ-45 порт |
| | WLAN (Wi-Fi модуль продается отдельно) | 1x Мини PCIe соединитель |
| Аудио | Realtek Codec ALC662, поддерживает 2 x порта с Line out (Выход Линии) / MIC in (вход Микрофона) | |
| Запоминающее устройство | 1x SATA II соединитель, скорость передачи данных до 3.0Гб/сек. | |
| Задние Вход/Выход I/O | Гнездо постоянного тока DC (19V DC-in вход) | 1x |
| | USB 3.0 порт | 1x |
| | USB 2.0 порт | 1x |
| | RJ-45 Гигабит Lan порт | 1x |
| | HDMI соединитель | 1x |
| | VGA соединитель | 1x |
| | Line-Out (Выход линии) | 1x |
| | Mic-In (Вход микрофона) | 1x |
| Передние Вход/Выход I/O | USB 2.0 порт | 2x |
| | Кнопка включения | 1x |
| Условия работы | Рабочая температура | 0°C ~ 40°C (32°F ~ 100°F) |
| | Температура хранения | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Относительная влажность | 20% ~ 80% неконденсирующаяся |
| Электропитание | 19V/45W | |
| OS Поддержка | Windows 7 / 8 / 8.1<br>Biostar оставляет за собой право добавлять или удалять поддержку любой ОС с или без предварительного уведомления. | |
| Установка | Подставка для ног | |
| | VESA 75/100 Кронштейн (по выбору) | |
| Размеры | 210мм (Д) x 40мм (Ш) x 185мм (В) | |
| Вес | 0.8 кг | |
| Соблюдение нормативных требований | CE/FCC | |

# Japanese

| | | |
|---|---|---|
| プロセッサ | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| グラフィックス | Integrated Intel® HD グラフィックス シリーズ グラフィック エンジン | |
| メモリ | デュアル チャンネル DDR3L 1333 (1.35V/1.5V) 対応<br>2x DDR3L SO-DIMM メモリ スロットは、メモリ最大16 GBまで対応<br>各 DIMM はnon-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L モジュール対応<br>* www.biostar.com.tw にリンクし、 メモリ対応リストを取得してください。 | |
| ネットワーク | LAN (RTL8111G) | 1x ギガバイト イーサネット、RJ-45 ポート |
| | WLAN (Wi-Fi モジュール別売) | 1x Mini PCIe コネクタ |
| オーディオ | Realtek Codec ALC662、 2x ポート ラインアウト/マイク入力対応 | |
| 保存 | 1x SATA II コネクタ、データ転送速度は最大 3.0Gb/s まで対応 | |
| リア I/O | DC ジャック(19V DC-in) | 1x |
| | USB 3.0 ポート | 1x |
| | USB 2.0 ポート | 1x |
| | RJ-45 ギガバイト Lan ポート | 1x |
| | HDMI コネクタ | 1x |
| | VGA コネクタ | 1x |
| | ラインアウト | 1x |
| | マイク入力 | 1x |
| フロント I/O | USB 2.0 ポート | 2x |
| | パワーオン・ボタン | 1x |
| 環境 | 操作 温度 | 0°C ~ 40°C (32°F ~ 100°F) |
| | 保存 温度 | -20°C ~ 60°C (-4°F ~ 140°F) |
| | 相対 湿度 | 20% ~ 80%非結露 |
| 電源装置 | 19V/45W | |
| OS 対応 | Windows 7 / 8 / 8.1<br>Biostar は事前の予告無しに全ての OS に対する追加または削除する権利を留保します | |
| 据え付け | 蹄摺台 | |
| | VESA 75/100 マウントブラケット(オプション) | |
| 寸法 | 210mm (L) x 40mm (W) x 185mm (H) | |
| 重量 | 0.8 kg | |
| 規制対応 | CE/FCC | |

# Spanish

| | | |
|---|---|---|
| Procesador | **iDEQ-T1 IN2940T1:** Intel® Celeron® Processor N2940 (2M Cache, up to 2.25 GHz)<br>**iDEQ-T1 IJ1800T1**: Intel® Celeron® Processor J1800 (1M Cache, up to 2.58 GHz) | |
| Gráfico | Serie de Intel ® HD Gráfico motor gráfico integrado | |
| Memoria | Sportar Canal Dual DDR3L 1333 (1.35V/1.5V)<br>Muesca de Memoria 2x DDR3L SO-DIMM, Soportar Memoria Max. de 16 GB<br>Cada DIMM soporta modulo non-ECC 512MB/ 1/ 2/ 4/ 8 GB DDR3L<br>Por favor refiere la www.biostar.com.tw para la lista de soporte de Memoria. | |
| Interconexión | LAN (RTL8111G) | 1x Gigabit Ethernet, Puerto RJ-45 |
| | WLAN (se vende por separado el modulo de Wi-Fi) | 1x Mini PCIe Conector |
| Audio | Realtek Codec ALC662, Soportar 2x Puerto con Línea out / MIC in | |
| Almacenaje | 1x SATA II conector, tarifa de transferir datos hasta 3.0Gb/s | |
| I/O Trasero | DC gato (19V DC-in) | 1x |
| | Puerto de USB 3.0 | 1x |
| | Puerto de USB 2.0 | 1x |
| | RJ-45 Gigabit Lan puerto | 1x |
| | HDMI conector | 1x |
| | VGA conector | 1x |
| | Línea-Out | 1x |
| | Mic-In | 1x |
| I/O Delantero | Puerto de USB 2.0 | 2x |
| | Botón de Potencia On | 1x |
| Ambiente | Temperatura de Operación | 0°C ~ 40°C (32°F ~ 100°F) |
| | Temperatura de Almacenaje | -20°C ~ 60°C (-4°F ~ 140°F) |
| | Humedad Relativa | 20% ~ 80% no-condensación |
| Suministro de Potencia | 19V/45W | |
| Soportar OS | Windows 7 / 8 / 8.1<br>Biostar reserva el derecho de añadir o quitar el soporte a cualquier OS con o sin aviso. | |
| Montaje | Soporte de pie | |
| | VESA 75/100 Anaquel de Montaje (Opcional) | |
| Dimensión | 210mm (L) x 40mm (W) x 185mm (H) | |
| Peso | 0.8 kg | |
| Cumplimiento de Regulador | CE/FCC | |

2014/08/25